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**Listing of the Claims**

This listing of the claims will replace all prior versions and listings of the claims in the application:

1. (Currently Amended) A method for structuring a procedure, comprising:  
providing reply-handling logic within the procedure to control execution of the procedure according to a phase parameter, the phase parameter identifying one of a plurality of sub-procedures of the procedure,  
identifying within the procedure a call to an external function, and  
inserting a break point within the procedure associated with the external function call, thereby defining at least a first sub-procedure and a second sub-procedure of the procedure and  
providing logic to update the phase parameter value that identifies the first sub-procedure to a phase parameter value that identifies the second sub-procedure, which is to be executed after execution of the external function.
2. (Currently Amended) The method of claim 1 wherein the reply-handling logic comprises the logic to update the phase parameter.
3. (Original) The method of claim 1 further comprising inserting logic to update the phase parameter in at least one of the plurality of sub-procedures.
4. (Original) The method of claim 1 wherein the reply-handling logic employs conditional logic statements.
5. (Original) The method of claim 1 wherein the reply-handling logic employs switch/case instructions.
6. (Original) The method of claim 1 wherein the reply-handling logic employs test/branch instructions.

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7. (Original) The method of claim 1 wherein the reply-handling logic further comprises instance state logic to identify an instance of the procedure.

8. (Currently Amended) A method for executing a procedure having a plurality of sub-procedures, comprising:

identifying a first sub-procedure by a first value of a phase parameter,  
identifying a second sub-procedure by a second value of a phase parameter,  
executing a ~~the~~ first sub-procedure of the procedure,  
calling an external function,  
passing a ~~the~~ phase parameter identifying one selected from the first sub-  
procedure and a second sub-procedure to the external function,  
passing program control to the external function,  
changing the first value of the phase parameter to the second value of the phase  
parameter, and  
passing program control to the second sub-procedure based on the value of the  
phase parameter upon execution of the external function.

9. (Original) The method of claim 8 wherein passing the phase parameter identifying one selected from the first sub-procedure and the second sub-procedure comprises pushing the phase parameter onto a stack.

10. (Original) The method of claim 8 wherein the external function passes the phase parameter back with the program control.

11. (Currently Amended) The method of claim 8 wherein the first sub-procedure updates the value of the phase parameter.

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12. (Currently Amended) The method of claim 8 further comprising reply-handling logic to direct program control to the second sub-procedure based on the value of the phase parameter.

13. (Currently Amended) The method of claim 12 wherein the reply-handling logic updates the value of the phase parameter.

14. (Original) The method of claim 8 wherein the phase parameter is a local variable stored in the environment surrounding a module instance.

15. (Original) The method of claim 8, further comprising:  
analyzing an instance state parameter identifying a procedure instance, and  
directing program control to the identified procedure instance based on the instance state.

16. (Currently Amended) A system for structuring a procedure, comprising:  
a processor,  
a memory connected to the processor storing processor executable instructions to control operation of the processor,  
the processor executable instructions including:  
instructions to provide reply handling logic within the procedure to control execution of the procedure according to a phase parameter, the phase parameter identifying one of a plurality of sub-procedures of the procedure,  
instructions to identify within the procedure a call to an external function,  
instructions to insert a break point within the procedure associated with the external function call, thereby defining at least a first sub-procedure and a second sub-procedure of the procedure, and  
instructions to insert logic to update the phase parameter to identify the second sub-procedure of the procedure to be executed after the execution of the external function.

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17. (Original) The system of claim 16 wherein the reply handling logic employs conditional logic statements.

18. (Original) The system of claim 16 wherein the reply handling logic employs switch/case instructions.

19. (Original) The system of claim 16 wherein the reply handling logic employs test/branch instructions.

20. (Original) The system of claim 16 wherein the reply handling logic further comprises:

instructions to identify an instance state of the procedure, and  
instructions to direct program control to a procedure instance as function of the instance state of the procedure.

21. (Currently Amended) A system for executing a procedure having a plurality of sub-procedures comprising:

a processor,  
a memory connected to said processor storing processor executable instructions to control operation of said processor,  
the processor executable instructions comprising;  
instructions to execute a first sub-procedure associated with a first value of a phase parameter,  
instructions to call and an external function,  
instructions to update the first value of the phase parameter to a second value of the phase parameter indicative of the first sub-procedure having been executed,  
instructions to pass a the first value or a second value of the phase parameter and program control to the external function, and

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instructions to direct program control to a second sub-procedure based on the first value or the second value of the phase parameter upon execution of the external function.

22. (Original) The system of claim 21 wherein the passing the phase parameter to the external function comprises instructions to push the phase parameter onto a stack.

23. (Currently Amended) The system of claim 21 wherein the instructions to execute the first procedure comprises instructions to update the value of the phase parameter.

24. (Currently Amended) The system of claim 21 wherein the processor executable instructions further comprise reply-handling logic to direct program control to the second sub-procedure based on the value of the phase parameter.

25. (Currently Amended) The system of claim 24 wherein the reply-handling logic further comprises instructions to update the value of the phase parameter.

26. (Original) The system of claim 24 wherein the processor executable instructions further comprise:

instructions to assign an instance state parameter to the procedure identifying a procedure instance;

instructions to analyze the instance state parameter identifying the procedure instance; and

instructions to direct program flow to the procedure instance identified by the instance state parameter upon execution of the external function.

27. (Original) The system of claim 21, wherein the external function passes the phase parameter back upon execution of the external function.

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28. (Original) The system of claim 21, wherein the phase parameter is a local variable stored in the environment surrounding the module.

29. (Currently Amended) A computer-readable storage medium comprising:  
instructions for providing reply-handling logic within a procedure to control execution of the procedure according to a phase parameter, the phase parameter identifying one of a plurality of sub-procedures of the procedure,  
instructions for identifying within the procedure a call to an external function,  
instructions for inserting a break point within the procedure associated with the external function call, thereby defining at least a first sub-procedure and a second sub-procedure of the procedure, and  
instructions for inserting logic to update a the phase parameter to identify the second sub-procedure of the procedure, and  
instructions to execute the second sub-procedure upon execution of the external function.

30. (Currently Amended) The computer-readable storage medium of claim 29 wherein the instructions for providing reply handling logic within the procedure further comprise instructions to control execution of the procedure according to an instance state parameter, the instance state parameter identifying a procedure instance.

31. (Currently Amended) A computer-readable storage medium comprising:  
instructions for executing a first sub-procedure and a second sub-procedure,  
instructions for communicating a phase parameter identifying one selected from a the first sub-procedure and a the second sub-procedure,  
instructions for updating the phase parameter to reflect that the first sub-procedure has been executed,  
instructions for directing program flow to the external function, and

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Instructions for directing program flow to a the second sub-procedure as a function the phase parameter upon execution of the external function.

32. (Original) The computer-readable storage medium of claim 31 further comprising:

instructions for communicating an instance state parameter identifying a procedure instance; and

instructions for directing program flow to the procedure instance identified by the instance state.

33. (Currently Amended) A system for executing a procedure having a plurality of sub-procedures comprising:

means for identifying a plurality of first sub-procedures,  
logic to call an external function,

means for updating the identifier of the first sub-procedure to identify a second sub-procedure.

means for communicating the identity identifier of one selected from a the first sub-procedure and a the second sub-procedure to the external function,

means for receiving a reply from the external function,

means for receiving the identity identifier of the one selected from the first sub-procedure and the second sub-procedure from the external function,

logic to analyze the identity identifier of the one selected from the first sub-procedure and the second sub-procedure received from the one external function, and

logic to pass control to the second sub-procedure as a function of the identity identifier of the one selected from the first sub-procedure and the second sub-procedure.

34. (Currently Amended) The procedure system of claim 33 wherein the plurality of sub-procedures are defined as a function of a call to an external function.

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35. (Currently Amended) The procedure system of claim 33 wherein the means for identifying the plurality of sub-procedures comprises a phase parameter.

36. (Currently Amended) The procedure system of claim 33 wherein the means for identifying the plurality of sub-procedures further comprises an instance state parameter for identifying a procedure instance.

37. (Currently Amended) The procedure system of claim 33 wherein the means for communicating the identity identifier of the one selected from the first sub-procedure and the second sub-procedure comprises storing the at least one parameter in a local environment.

38. (Currently Amended) The procedure system of claim 33 wherein the means for communicating the identity identifier of the one selected from the first sub-procedure and the second sub-procedure comprises pushing the a parameter onto a stack and pulling the parameter off the stack upon execution of the external function.

39. (Currently Amended) The procedure system of claim 33, wherein the means for receiving the identity identifier of the one selected from the first sub-procedure and the second sub-procedure from the external function comprises passing the identity of the one selected from the first sub-procedure and the second sub-procedure back in the external function's response.